

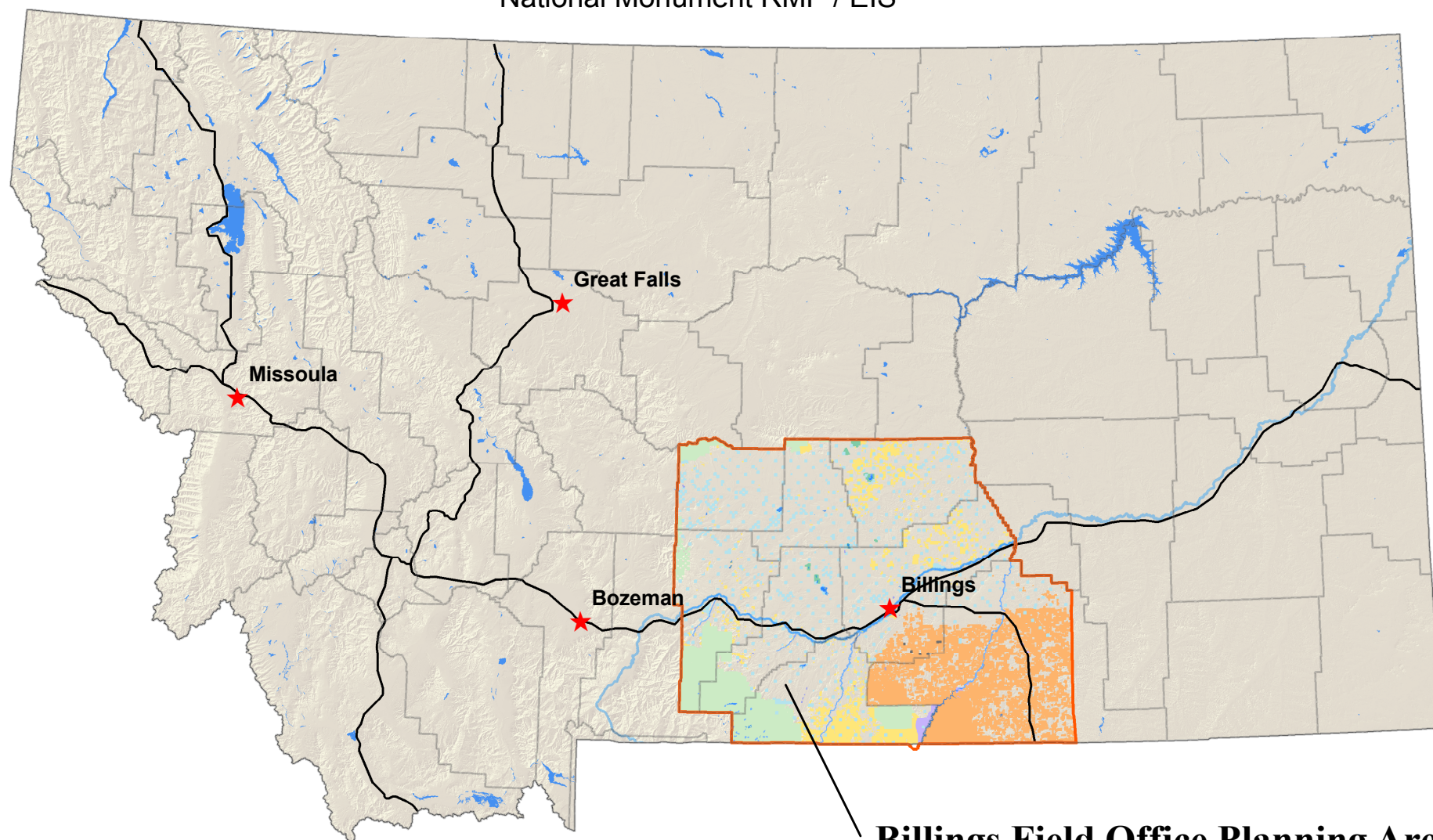


# U.S. DEPARTMENT OF THE INTERIOR

## Bureau of Land Management



### Billings & Pompeys Pillar National Monument RMP / EIS

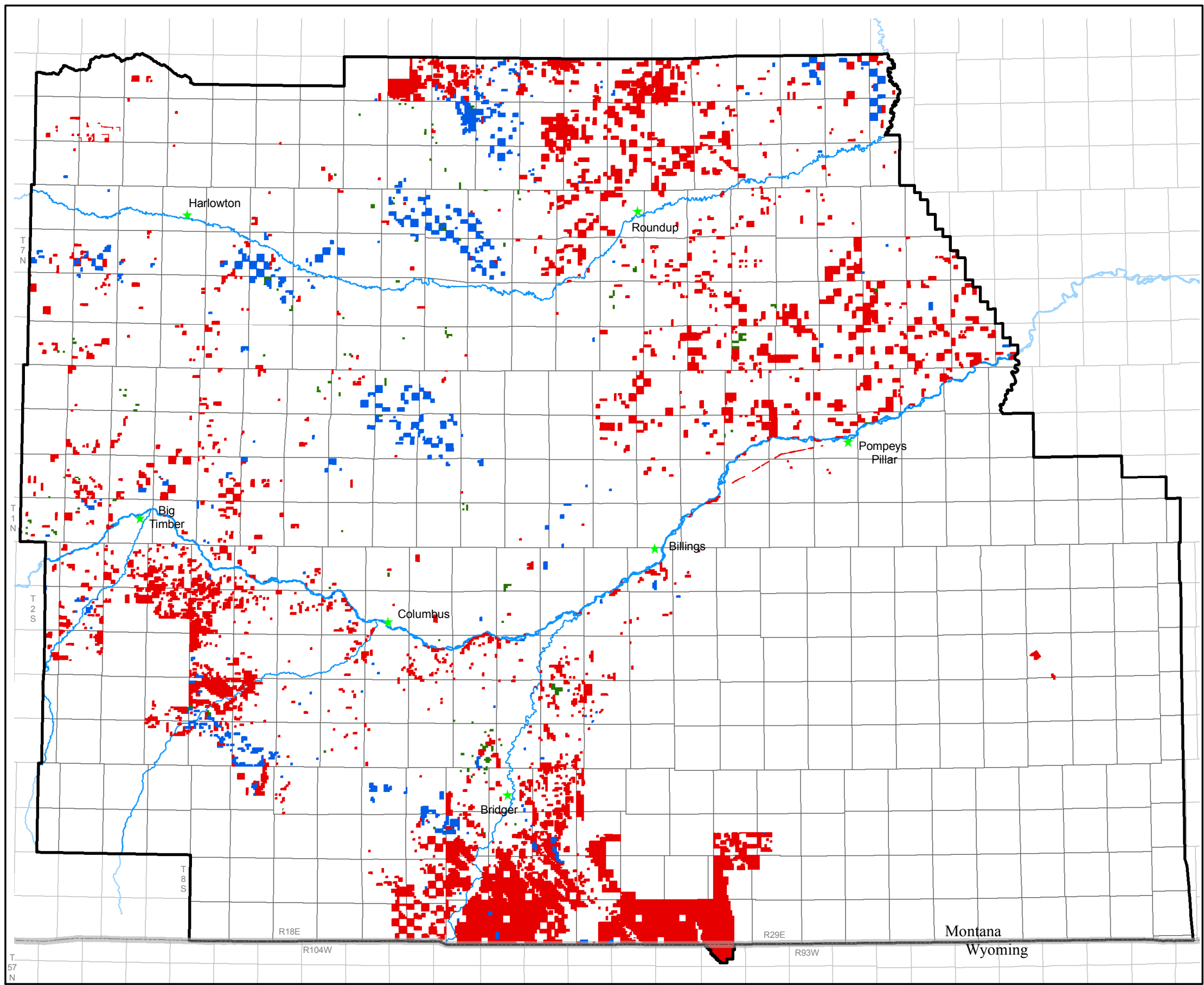


**Billings Field Office Planning Area**



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July 2011

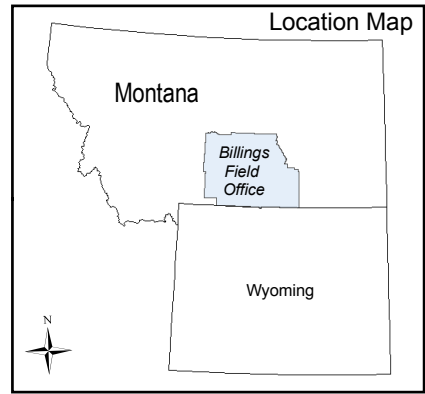
Map 1



### Legend

- State Border
- Planning Area Boundary
- Federal Subsurface Managed by BLM**
  - All Minerals
  - Coal, Oil, and Gas
  - Oil and Gas
  - Rivers
  - Public Lands Survey System
  - Towns

### Bureau of Land Management Federal Minerals within the Billings Field Office Planning Area



0 2 4 8 12 16 20 Miles  
Map scale 1:900,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

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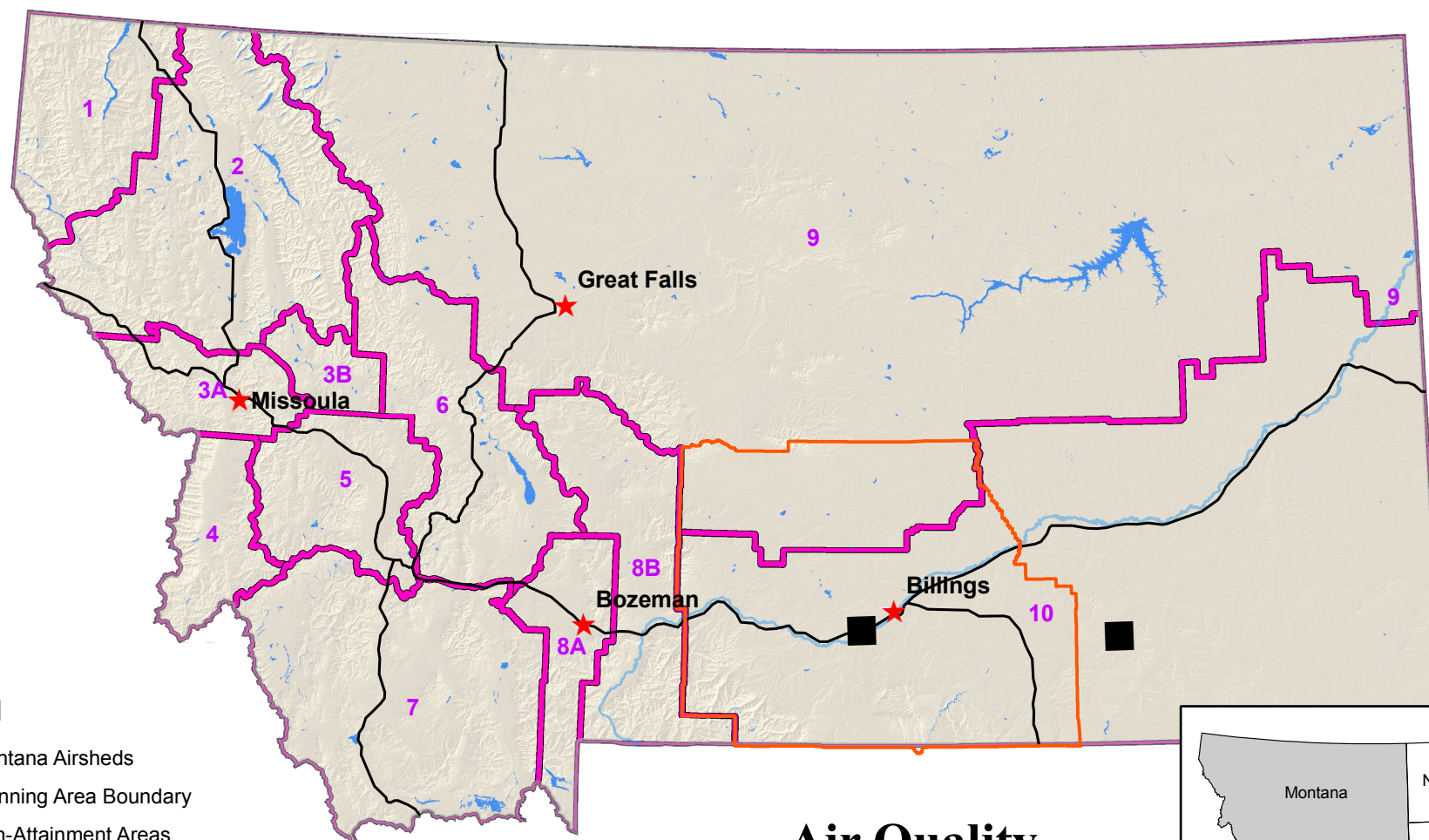


# U.S. DEPARTMENT OF THE INTERIOR

## Bureau of Land Management



### Billings & Pompeys Pillar National Monument RMP / EIS



#### Legend

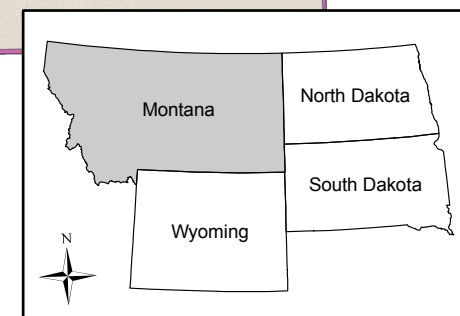
- Montana Airsheds
- Planning Area Boundary
- Non-Attainment Areas
- USA Highways
- Rivers
- Water
- City

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July 2011

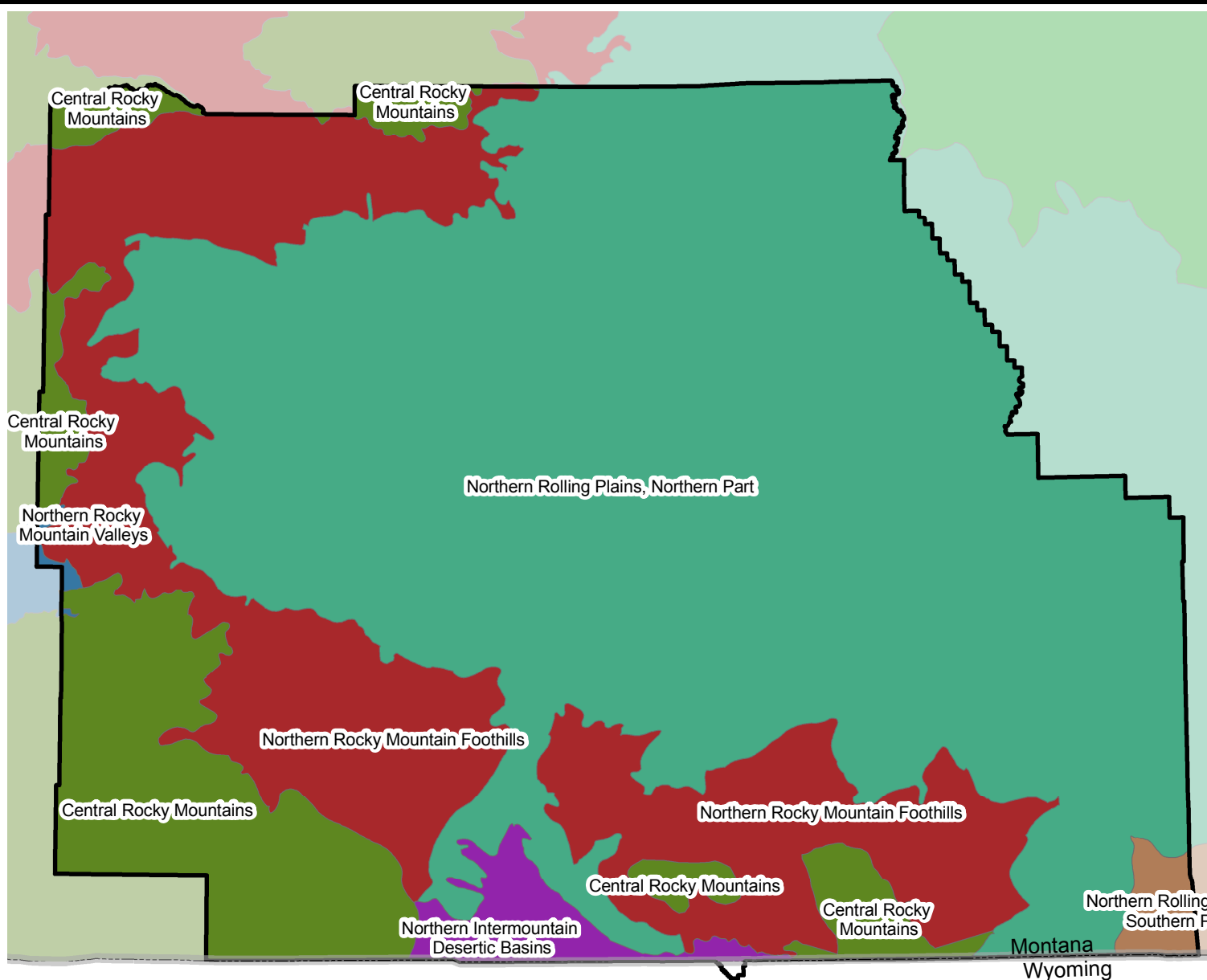
## Air Quality Non-Attainment Areas

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection







## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



### Soil Major Land Resource Area

0 4 8 16 24 32 40 Miles

Map scale 1:1,350,000

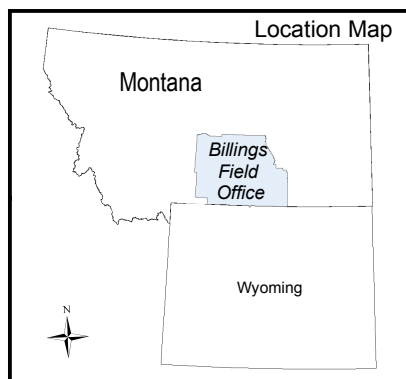
Map generated by the Billings Field Office in July 2011

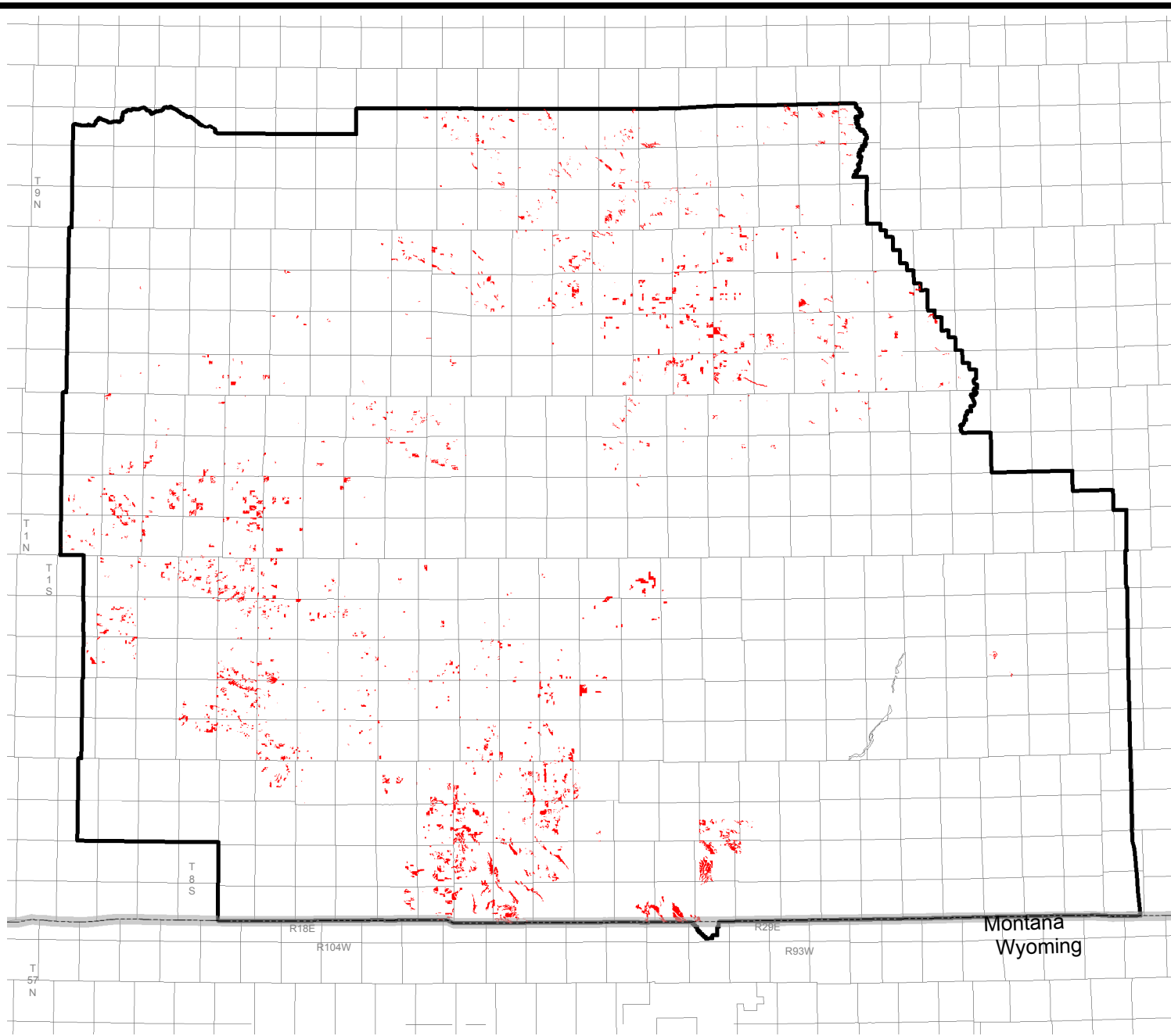
Albers Equal Area, NAD83 Projection

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#### Legend

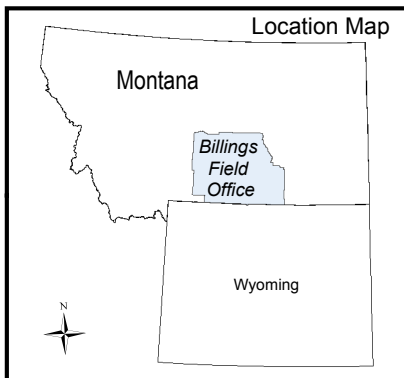
- State Border
- Planning Area Boundary
- MLRA**
- NAME**
- Central Rocky Mountains
- Northern Intermountain Desertic Basins
- Northern Rocky Mountain Foothills
- Northern Rocky Mountain Valleys
- Northern Rolling Plains, Northern Part
- Northern Rolling Plains, Southern Part





## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



# Severe Water Erosion, Rocky Outcrops, and Sensitive Soils





0 4 8 16 24 32 40 Miles

Map scale 1:1,350,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

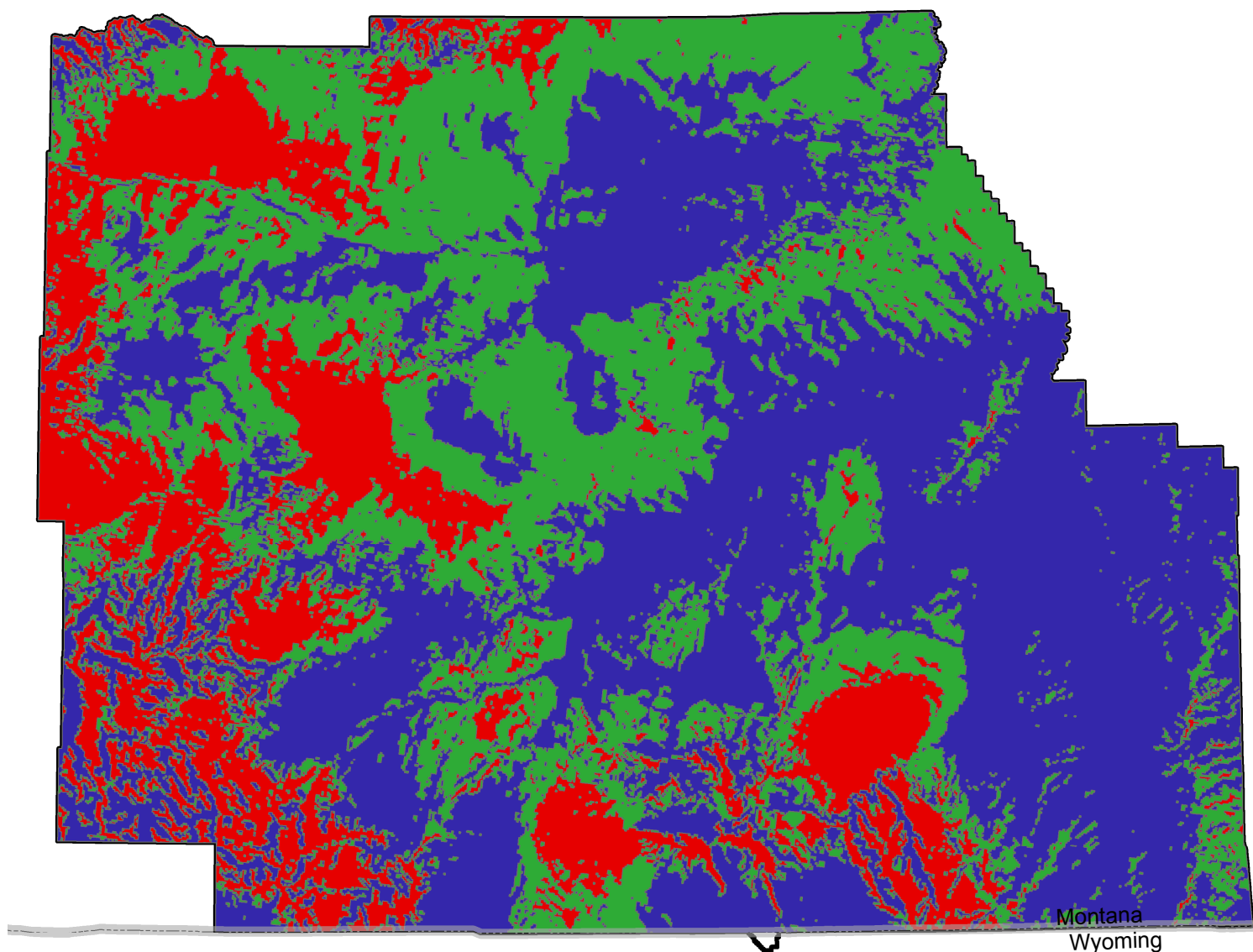
## Legend

-  State Border
-  Planning Area Boundary
-  Public Lands Survey System
-  Sensitive Soils

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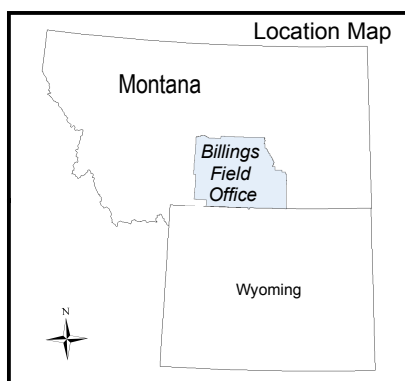
Map 6A





## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



### Soil Wind Erodibility

0 3.5 7 14 21 28 35 Miles

Map scale 1:1,350,000

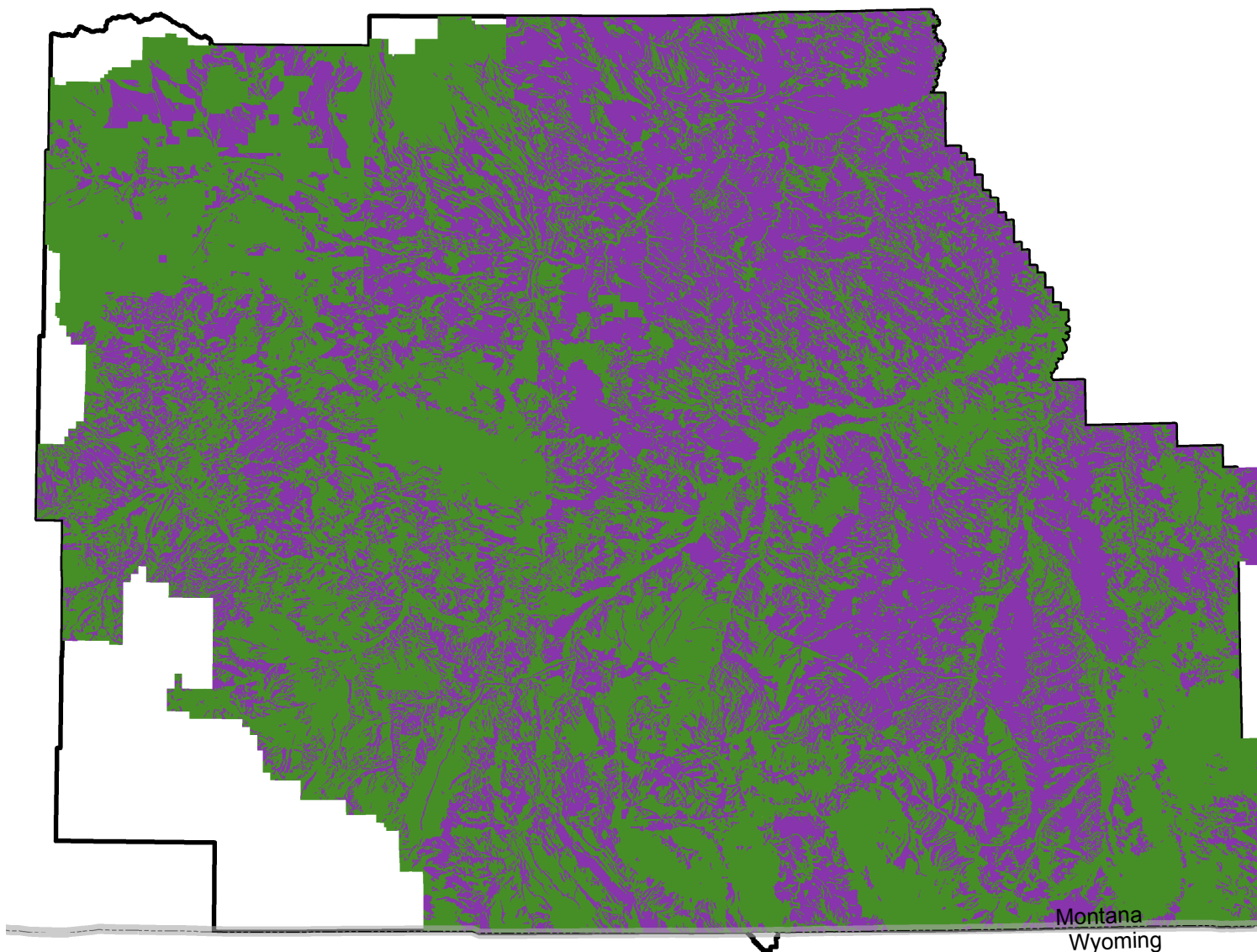
Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

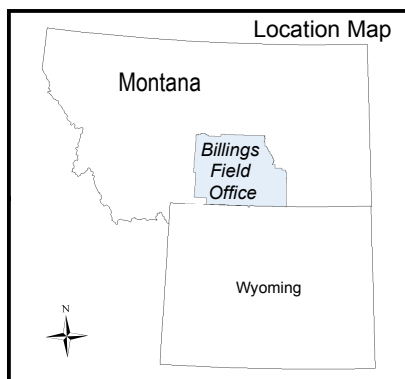
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### Legend

- State Border
- Planning Area Boundary
- Wind Erodibility**
  - High
  - Moderate
  - Low



US DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
Billings & Pompeys Pillar  
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## Soil Wind Erodibility

0 3.5 7 14 21 28 35 Miles

Map scale 1:1,350,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

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### Legend

State Border

### Rating

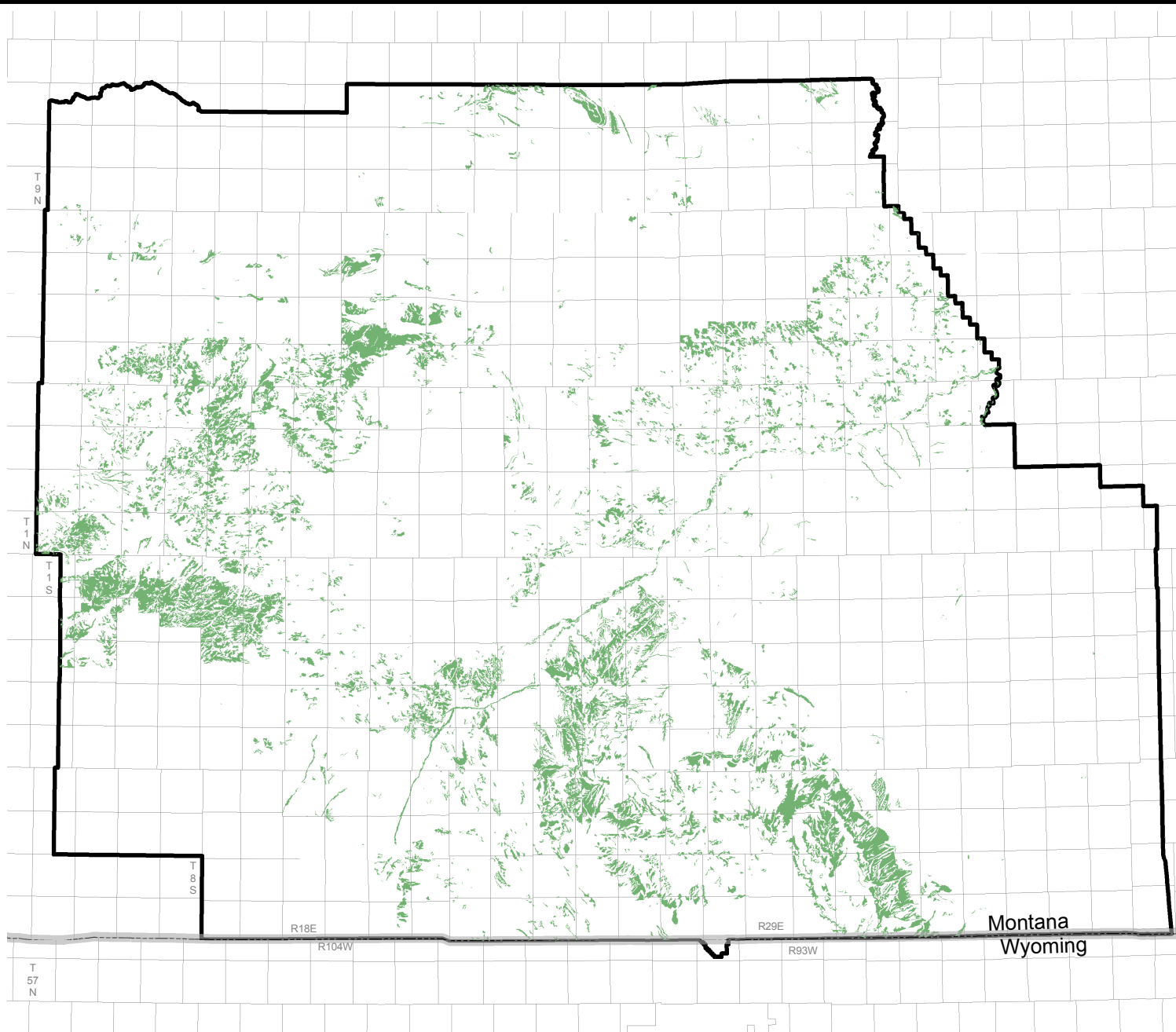
Moderate

Slight

Planning Area Boundary

Map 6

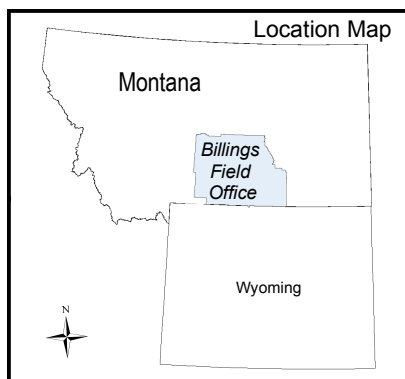




## US DEPARTMENT OF THE INTERIOR Bureau of Land Management



Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



## Soil T-Factor

0 4 8 16 24 32 40 Miles

Map scale 1:1,350,000

Map generated by the Billings Field Office in July 2011

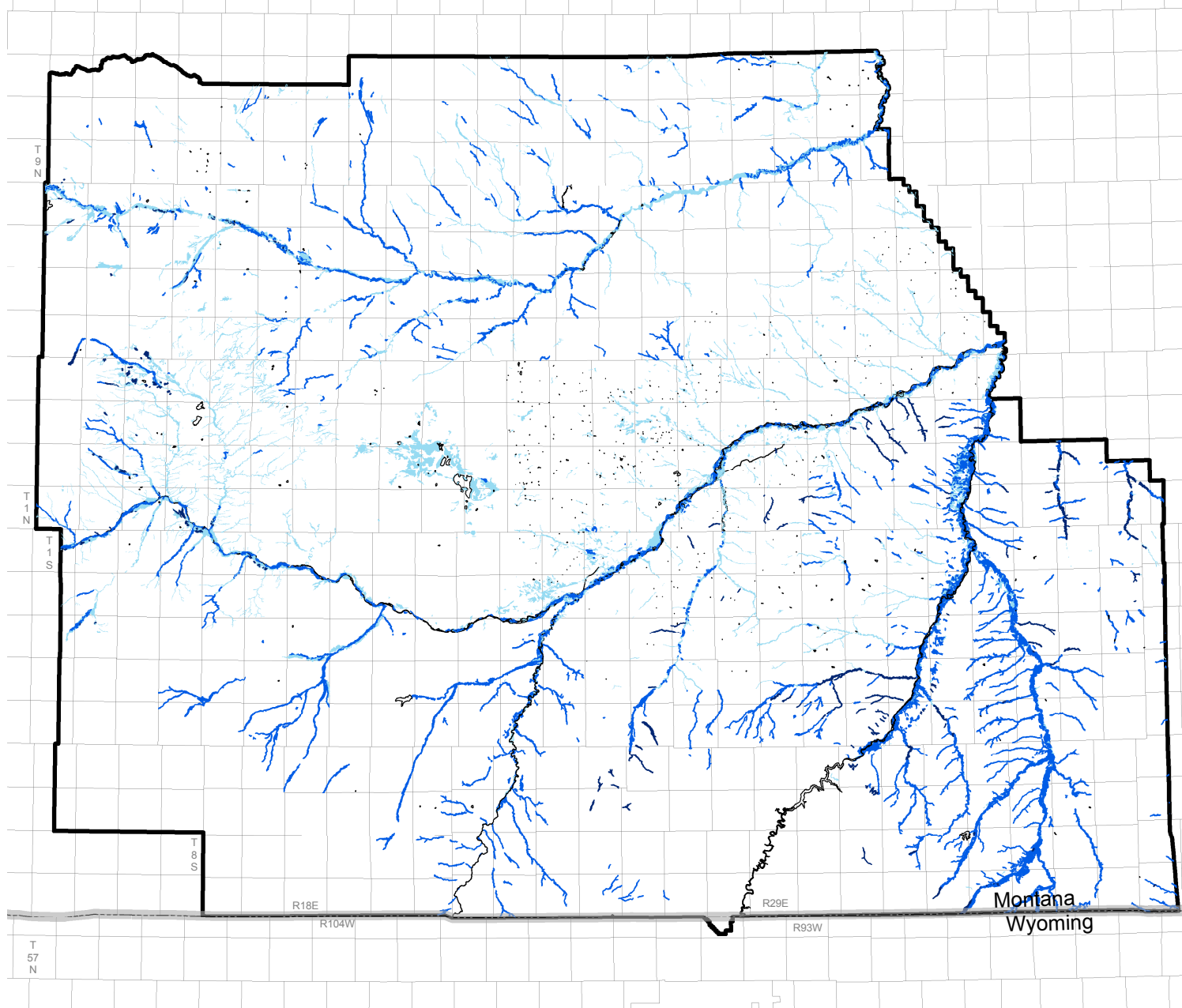
Albers Equal Area, NAD83 Projection

### Legend

- State Border
- Planning Area Boundary
- Public Lands Survey System
- T-factor Soils

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Map 7



## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
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### FloodPlain Areas

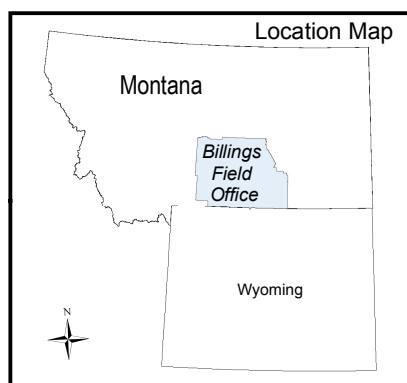
0 3.5 7 14 21 28 35 Miles

Map scale 1:1,350,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

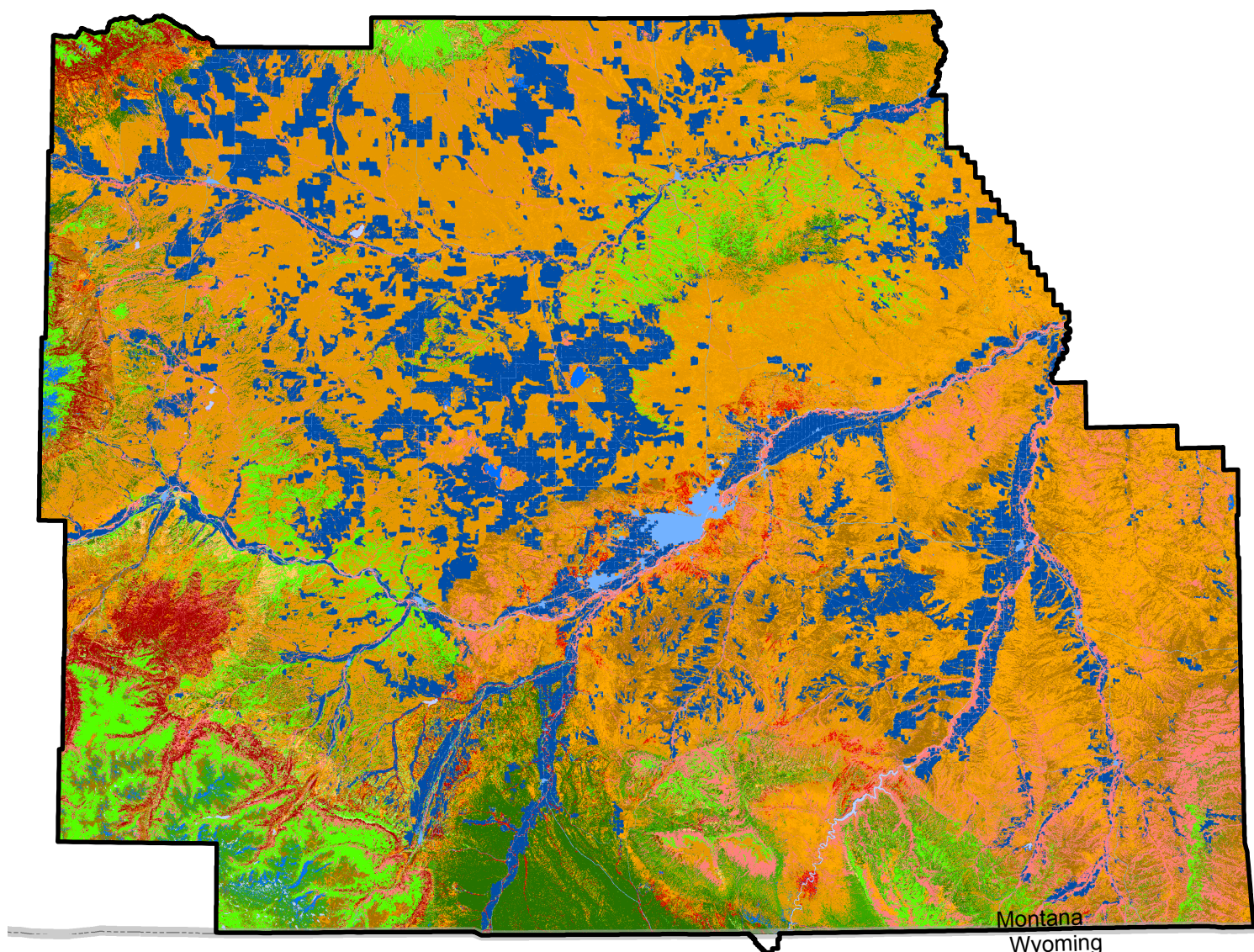
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#### Legend

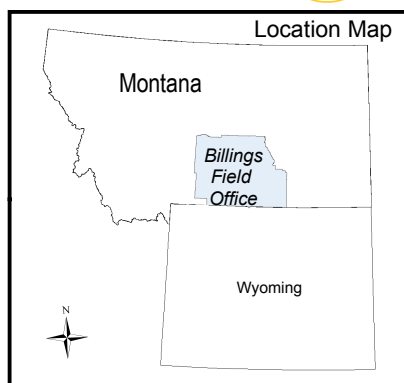
- State Border
- Planning Area Boundary
- Public Lands Survey System
- Floodplains**
  - Frequent
  - Occasional
  - Rare
  - None





## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



### Vegetation

#### Legend

Planning Area Boundary	80- 84	2,124 - 2,127
State Border	2,001 - 2,016	2,135 - 2,141
0-11	2,045 - 2,057	2,143 - 2,149
11; 12	2,061 - 2,072	2,153 - 2,179
20- 24	2,080 - 2,086	2,180 - 2,183
31	2,106 - 2,117	2,220 - 2,495

For Definitions  
of Legend items  
see next page

Source Data:  
Landfire (Landscape Fire  
and Resource Management  
Planning Tools Project)  
U.S. Department of Agriculture  
Forest Service and  
U.S. Department of Interior

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## Map 9 Vegetation Definitions

VALUE	Vegetation Definitions
11	Open Water
21	Developed-Open Space
22	Developed-Low Intensity
23	Developed-Medium Intensity
31	Barren
80	Agriculture-General
81	Agriculture-Pasture/Hay
82	Agriculture-Cultivated Crops and Irrigated Agriculture
83	Agriculture-Small Grains
84	Agriculture-Fallow
2001	Inter-Mountain Basins Sparsely Vegetated Systems
2006	Rocky Mountain Alpine/Montane Sparsely Vegetated Systems
2007	Western Great Plains Sparsely Vegetated Systems
2011	Rocky Mountain Aspen Forest and Woodland
2012	Rocky Mountain Bigtooth Maple Ravine Woodland
2016	Colorado Plateau Pinyon-Juniper Woodland
2045	Northern Rocky Mountain Dry-Mesic Montane Mixed Conifer Forest
2046	Northern Rocky Mountain Subalpine Woodland and Parkland
2047	Northern Rocky Mountain Mesic Montane Mixed Conifer Forest
2049	Rocky Mountain Foothill Limber Pine-Juniper Woodland
2050	Rocky Mountain Lodgepole Pine Forest
2053	Northern Rocky Mountain Ponderosa Pine Woodland and Savanna
2054	Southern Rocky Mountain Ponderosa Pine Woodland
2055	Rocky Mountain Subalpine Dry-Mesic Spruce-Fir Forest and Woodland
2056	Rocky Mountain Subalpine Mesic-Wet Spruce-Fir Forest and Woodland
2061	Inter-Mountain Basins Aspen-Mixed Conifer Forest and Woodland
2062	Inter-Mountain Basins Curl-leaf Mountain Mahogany Woodland and Shrubland
2066	Inter-Mountain Basins Mat Saltbush Shrubland
2072	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe
2080	Inter-Mountain Basins Big Sagebrush Shrubland
2081	Inter-Mountain Basins Mixed Salt Desert Scrub
2085	Northwestern Great Plains Shrubland
2086	Rocky Mountain Lower Montane-Foothill Shrubland
2106	Northern Rocky Mountain Montane-Foothill Deciduous Shrubland
2107	Rocky Mountain Gambel Oak-Mixed Montane Shrubland
2115	Inter-Mountain Basins Juniper Savanna
2117	Southern Rocky Mountain Ponderosa Pine Savanna
2125	Inter-Mountain Basins Big Sagebrush Steppe
2126	Inter-Mountain Basins Montane Sagebrush Steppe
2127	Inter-Mountain Basins Semi-Desert Shrub-Steppe
2135	Inter-Mountain Basins Semi-Desert Grassland
2139	Northern Rocky Mountain Lower Montane-Foothill-Valley Grassland
2140	Northern Rocky Mountain Subalpine-Upper Montane Grassland
2141	Northwestern Great Plains Mixedgrass Prairie
2145	Rocky Mountain Subalpine-Montane Mesic Meadow

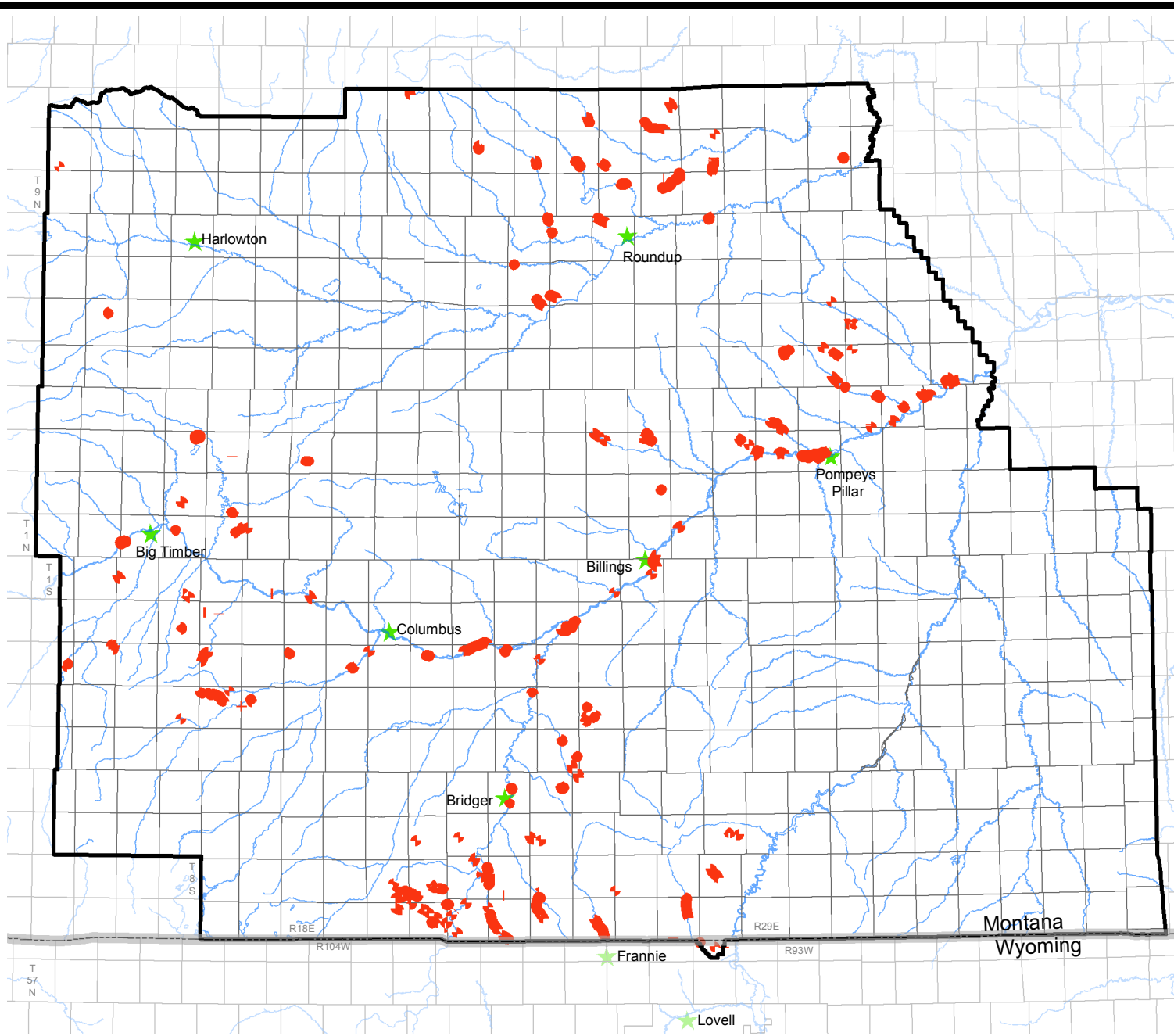
2146 Southern Rocky Mountain Montane-Subalpine Grassland  
2148 Western Great Plains Sand Prairie  
2149 Western Great Plains Shortgrass Prairie  
2153 Inter-Mountain Basins Greasewood Flat  
2159 Rocky Mountain Montane Riparian Systems  
2160 Rocky Mountain Subalpine/Upper Montane Riparian Systems  
2161 Northern Rocky Mountain Conifer Swamp  
2162 Western Great Plains Floodplain Systems  
2165 Northern Rocky Mountain Foothill Conifer Wooded Steppe  
2166 Middle Rocky Mountain Montane Douglas-fir Forest and Woodland  
2167 Rocky Mountain Poor-Site Lodgepole Pine Forest  
2169 Northern Rocky Mountain Subalpine Deciduous Shrubland  
2179 Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna  
2180 Introduced Riparian Vegetation  
2181 Introduced Upland Vegetation-Annual Grassland  
2182 Introduced Upland Vegetation-Perennial Grassland and Forbland  
2183 Introduced Upland Vegetation-Annual and Biennial Forbland  
2220 *Artemisia tridentata* ssp. *vaseyana* Shrubland Alliance  
2227 *Pseudotsuga menziesii* Forest Alliance  
2385 Western Great Plains Wooded Draw and Ravine  
2495 Western Great Plains Depressional Wetland Systems

## Map 9 Vegetation Definitions

VALUE	Vegetation Definitions
11	Open Water
21	Developed-Open Space
22	Developed-Low Intensity
23	Developed-Medium Intensity
31	Barren
80	Agriculture-General
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82	Agriculture-Cultivated Crops and Irrigated Agriculture
83	Agriculture-Small Grains
84	Agriculture-Fallow
2001	Inter-Mountain Basins Sparsely Vegetated Systems
2006	Rocky Mountain Alpine/Montane Sparsely Vegetated Systems
2007	Western Great Plains Sparsely Vegetated Systems
2011	Rocky Mountain Aspen Forest and Woodland
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2072	Wyoming Basins Dwarf Sagebrush Shrubland and Steppe
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2107	Rocky Mountain Gambel Oak-Mixed Montane Shrubland
2115	Inter-Mountain Basins Juniper Savanna
2117	Southern Rocky Mountain Ponderosa Pine Savanna
2125	Inter-Mountain Basins Big Sagebrush Steppe
2126	Inter-Mountain Basins Montane Sagebrush Steppe
2127	Inter-Mountain Basins Semi-Desert Shrub-Steppe
2135	Inter-Mountain Basins Semi-Desert Grassland
2139	Northern Rocky Mountain Lower Montane-Foothill-Valley Grassland
2140	Northern Rocky Mountain Subalpine-Upper Montane Grassland
2141	Northwestern Great Plains Mixedgrass Prairie
2145	Rocky Mountain Subalpine-Montane Mesic Meadow



2146 Southern Rocky Mountain Montane-Subalpine Grassland  
2148 Western Great Plains Sand Prairie  
2149 Western Great Plains Shortgrass Prairie  
2153 Inter-Mountain Basins Greasewood Flat  
2159 Rocky Mountain Montane Riparian Systems  
2160 Rocky Mountain Subalpine/Upper Montane Riparian Systems  
2161 Northern Rocky Mountain Conifer Swamp  
2162 Western Great Plains Floodplain Systems  
2165 Northern Rocky Mountain Foothill Conifer Wooded Steppe  
2166 Middle Rocky Mountain Montane Douglas-fir Forest and Woodland  
2167 Rocky Mountain Poor-Site Lodgepole Pine Forest  
2169 Northern Rocky Mountain Subalpine Deciduous Shrubland  
2179 Northwestern Great Plains-Black Hills Ponderosa Pine Woodland and Savanna  
2180 Introduced Riparian Vegetation  
2181 Introduced Upland Vegetation-Annual Grassland  
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2220 *Artemisia tridentata* ssp. *vaseyana* Shrubland Alliance  
2227 *Pseudotsuga menziesii* Forest Alliance  
2385 Western Great Plains Wooded Draw and Ravine  
2495 Western Great Plains Depressional Wetland Systems



## US DEPARTMENT OF THE INTERIOR Bureau of Land Management

Billings & Pompeys Pillar  
National Monument Draft RMP / EIS



# Riparian Properly Functioning Condition Surveys

0 3.5 7 14 21 28 35 Miles

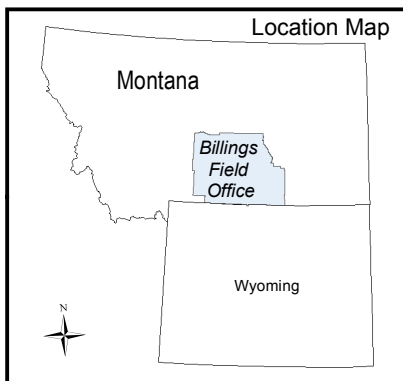
Map scale 1:1,350,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

### Legend

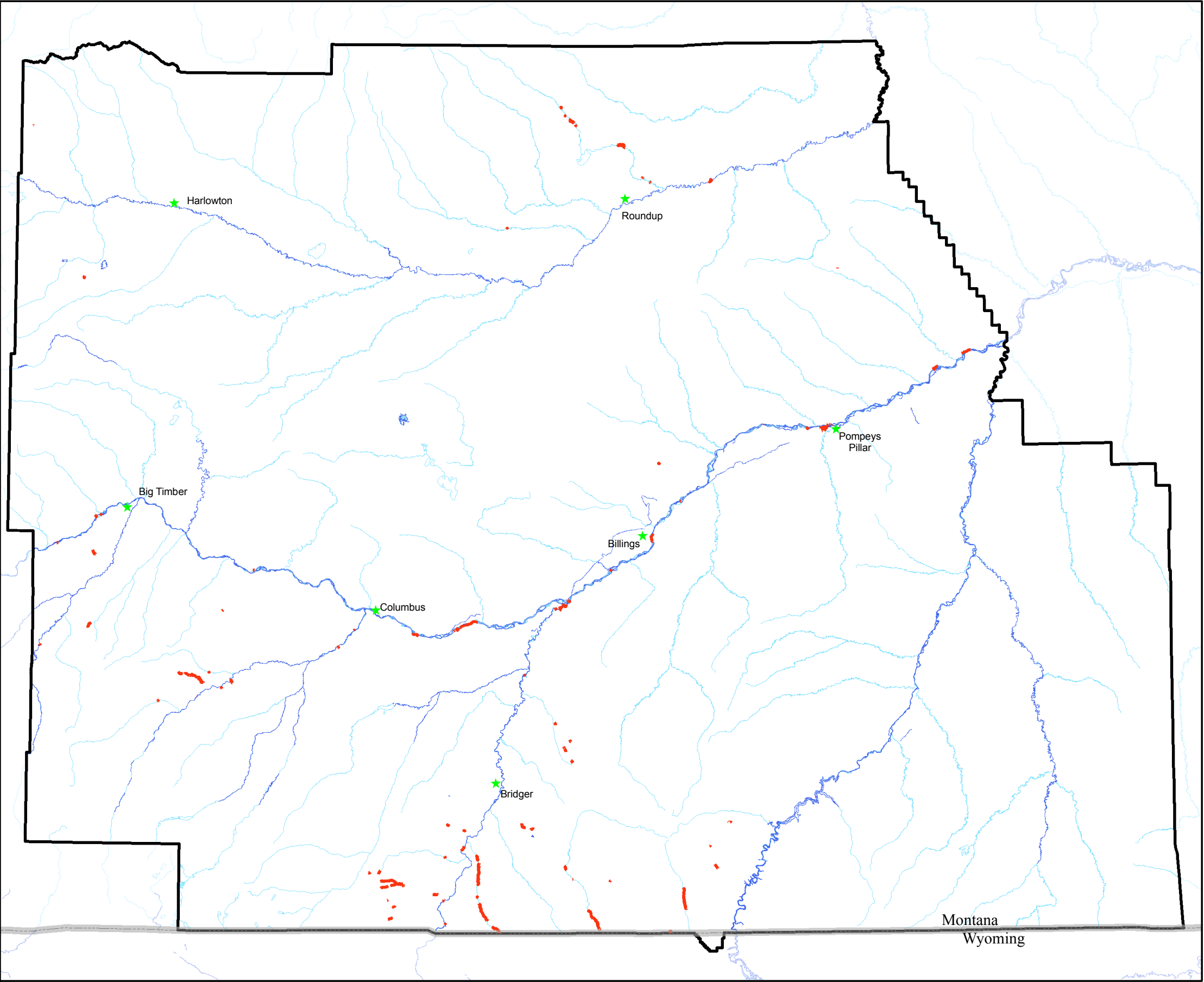
- State Border
- Planning Area Boundary
- PFC Survey
- Public Lands Survey System
- Streams
- Towns



For display purposes, the segments  
have been enhanced.

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Map 10



U.S. DEPARTMENT OF THE INTERIOR

Bureau of Land Management



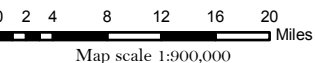
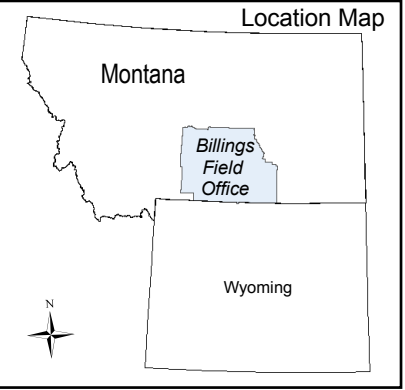
Billings & Pompeys Pillar  
National Monument RMP / EIS



**Legend**

- State Border
- Planning Area Boundary
- Priority Recovery Areas
- Rivers
- Streams
- Towns

**Riparian Priority  
Recovery Areas  
Alternatives B and D**

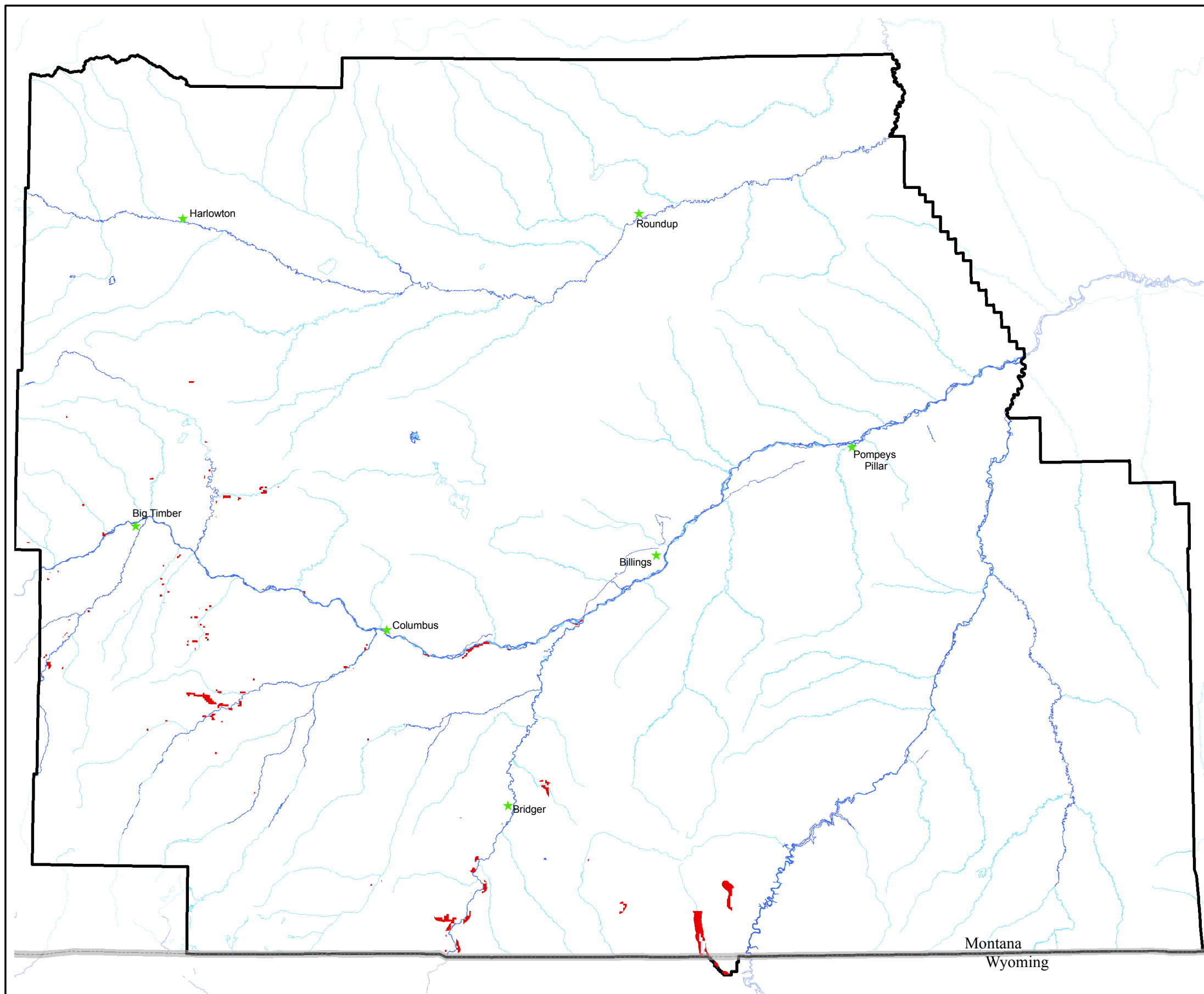


Map generated by the Billings Field Office in July 2011







Albers Equal Area, NAD83 Projection

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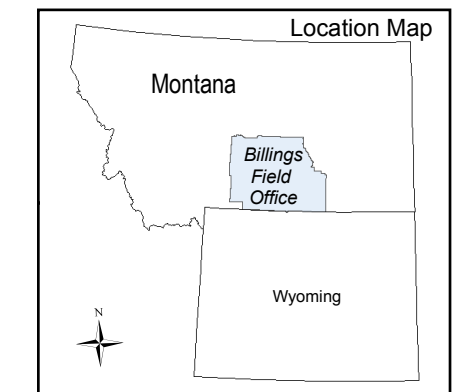




## Legend

-  State Border
-  Planning Area Boundary
-  Priority Recovery Areas
-  Rivers
-  Streams
-  Towns

## Riparian Priority Recovery Areas Alternative C



0 2 4 8 12 16 20 Miles  
Map scale 1:900,000

Map generated by the Billings Field Office in July 2011

Albers Equal Area, NAD83 Projection

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